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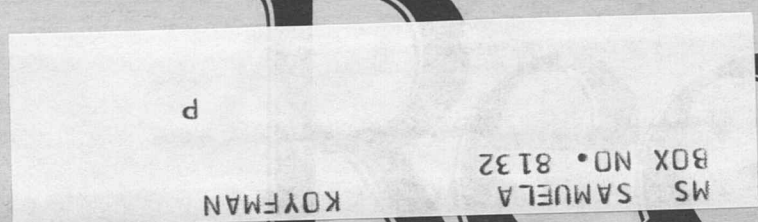
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September 10, 1998

Record

Volume 23 No. 3



Washington University in St. Louis



Americans, visitors share 'best practices'

BY NANCY BELT

Two faculty members from Fudan University in Shanghai, China, are visiting the John M. Olin School of Business this semester, becoming the first Emerson Electric Fellows, a project designed to further an exchange of best practices in business education. Future fellows in this project, supported by Emerson Electric Co., will come from Tsinghua University in Beijing, as well as Fudan University.

Collaborative agreements provide for visiting faculty from these Chinese institutions to attend classes at the Olin School during a semester, in which Olin and visiting faculty can share expertise and teaching methods that could be used at their institutions, and to take part in research. To reciprocate, an executive education group from the business school will visit these universities in China.

Present faculty fellows from Fudan University's School of Management are Zhai Li, lecturer, and Su Yong, associate professor and director of the Master of Business Administration program at Fudan University. Zhai, who teaches "Project Management" and other courses, said she might

attend marketing courses, which would broaden her expertise, and "The Hatchery" entrepreneurship course.

"Students at Fudan are very interested in entrepreneurship, and we're planning to offer a course in it," she said.

Su, who teaches "Management," "Business Ethics," "Consumer Behavior" and other courses, is likely to attend classes in ethical issues and brand management. "I also want to learn about managing a business school," he said. Both said the students here study hard and are active and aggressive, and, in their first week here — their first visit to the United States, they've been impressed with St. Louis. "Here it is so quiet, and the air is so fresh," said Zhai.

"And the city is beautiful," Su added.

"We're delighted to have agreements with these outstanding institutions and delighted to have Professors Zhai and Su at Olin," said Stuart I. Greenbaum, Ph.D., dean of the business school. "We hope that this program of intellectual exchange between Olin and Fudan and Tsinghua universities will build durable bridges of friendship and understanding between our communities."



Linda Marcus discusses her personal experience with the United Way at the kick-off breakfast for the University's United Way Campaign at Whittemore House Thursday, Sept. 3.

WU kicks off United Way Campaign

BY MARTHA EVERETT

Linda Marcus was sitting at her desk in the Financial Planning Office when she noticed a swelling at the base of her neck. Thirteen days later, she was diagnosed with non-Hodgkin's lymphoma, an incurable form of cancer.

"My diagnosis came out of the blue," Marcus said of the news she received in December 1996. "I needed information, and I needed information now."

That's where the United Way came in. The United Way helps fund the American Cancer Society (ACS), the organization to which Marcus turned. The ACS provided Marcus with informational pamphlets on her disease. It provided her with free nutritional supplements, something Marcus discovered through her reading was essential for cancer patients. And it provided her with a baseball cap to wear when she lost her hair during treatment.

Marcus shared her story at the University's United Way Campaign kick-off breakfast at Whittemore House Thursday, Sept. 3. The story brought to life this year's campaign slogan: "The best way to care for someone you know."

"Most of us go through life not expecting anything horrendous to

happen to us or those we care about," Marcus said. "Well, I can tell you for sure it does happen to us. And it's really good to know that those agencies that we need to be there for us at that time are there and funded through the United Way."

Marcus is one of thousands of people helped each year by the United Way of Greater St. Louis. In fact, one in three people in the area is helped by a United Way-

supported agency. More than 90 cents of every dollar donated to the United Way of Greater St. Louis goes directly to 140 health and human service agencies and programs in the city of St. Louis and the 10 surrounding counties in Missouri and Illinois.

This year's University campaign goal is \$375,000 — the highest yet. It's a tall order for a seven-week

See **United Way**, page 6



United Way

University-AGC course to aid minority, women contractors

BY MARTHA EVERETT

As part of a continuing commitment to increase minority and women participation in construction projects, Washington University is teaming up with the Associated General Contractors (AGC) of St. Louis to sponsor a course titled "The Business of Construction." The course is designed to help emerging contractors compete in the construction industry — an integral component of the

Washington University program announced in February by Chancellor Mark S. Wrighton.

Taught by University professors and leaders in the AGC, the course combines academic theory with practical applications through lectures and hands-on workshops. Lectures will take place at the University; the workshops will be held in the AGC's construction training facility.

Among the instructors are
See **Construction**, page 2



Zhai Li (far left) and Su Yong (far right), faculty from Fudan University in Shanghai, China, get acquainted with first-year MBA students Rebecca Gray from Washington, D.C., and Dennis Shirokov from Moscow in the Lopata Courtyard at the John M. Olin School of Business.

Cute as dumplings 'Knedel' particle has potential for drug, gene delivery

BY TONY FITZPATRICK

Chemists at Washington University have created synthetic polymer particles that are as cute as dumplings.

They're called knedels (k-NED-ls), after a popular Polish dumpling filled either with meat or sweets. While the Polish knedel is a sumptuous taste treat, the Washington University knedel is a synthetic nano-sized particle that its creators hope someday will be the carrier of drugs or genes for biomedical applications and therapies.

Karen L. Wooley, Ph.D., assistant

professor of chemistry in Arts and Sciences, and post-doctoral researcher Haiyong Huang, Ph.D., have made a breakthrough in the particle that K. Bruce Thurmon II, a graduate student in Wooley's group, first synthesized in 1996. They changed the composition of their knedel's core from a glassy to a rubbery substance similar to the interior of a golf ball. Additionally, this core can be hollowed out, creating a capsule into which large amounts of drugs — or DNA for gene therapy — may be loaded for delivery.

Huang and Wooley published their results this summer in the

British journal Chemical Communications. The work is funded by the National Science Foundation and Monsanto Co.

"They're like golf ball molecules in this form," Wooley said. "This advance moves us along in our goal of making knedels potential drug- and gene-carrying systems. It makes the particle a lot more versatile and the rubbery core should allow a higher loading capacity. We've gotten lots of interest in the knedels for their potential, their novelty — and their name."

Wooley and her colleagues recently have been focusing on the

knedel's water-soluble shell that allows them to bind DNA to its surface. This in turn causes small aggregates to form that protect the genetic material from being digested by enzymes. The chemists charge the shell positively so the knedel attracts DNA, which has a negative charge. Thus, the shell itself can play a key role in drug delivery. Wooley and her group are developing knedels to be used for both oral and injected medication.

Knedels are variations and improvements on a class of polymers — chain-like structures of repeating compound assem-

blies — called micelles. There has been lots of interest this decade in micelles for drug delivery, but they have a major drawback for this purpose. They are dynamic and unstable. If they are diluted or subjected to force in a system, they tend to fall apart.

Knedels, on the other hand, assemble and behave much the way proteins such as insulin do. With insulin, which our pancreas secretes to regulate blood sugar rates, there are two linear polymer chains of amino acids — the chemical units that are the building blocks of proteins. The

See **Knedels**, page 6



Karate demonstration From left, Grish Chandranmenom, Amy Murphy and Lance Hayes of the University's Shotokan Karate Club entertain a Japanese Festival crowd at the Missouri Botanical Garden Saturday, Sept. 5, with a "team kata" demonstration.

Construction

Course seeks to aid emerging contractors

— from page 1

faculty from the John M. Olin School of Business. Course facilitators include experienced professionals from successful area AGC member firms, such as R.G. Ross Construction Co. Inc. and BSI Constructors Inc. Among the topics covered in the course are business planning, marketing strategies, accounting, banking, project and personnel management, scheduling and safety.

The six-month course, which runs Oct. 3, 1998, through April 13, 1999, is being offered for a nominal fee (\$100, with \$50 reimbursed upon completion of the course), making it accessible to burgeoning businesses.

"The Business of Construction' course is part of a long-term commitment on the part of Washington University to ensure equal opportunity for women and minorities," Wrighton said. "Such

cooperative educational efforts reaffirm the University's pledge to promote diversity not only on campus but throughout the St. Louis area."

AGC President Alan Jenkins said, "This course is part of an ongoing effort by the AGC of St. Louis to reach out and assist firms, especially emerging minority- and women-owned firms, in building a strong St. Louis construction industry."

The University has a long history of partnership with the AGC working to assist minority contractors. In 1972, Washington University and the AGC, together with Model City Minority Contractor Development Corp., sponsored a series of seminars for minority contractors on construction cost estimating and contract documents. The following year, the three entities worked with the Minority Contractors Assistance Program to present a one-day workshop for minority contractors called "Together We Can."

"This course is one of many new initiatives that the University is undertaking to increase minority and women participa-

tion in our many construction activities on both the Hilltop and Medical campuses," said Richard A. Roloff, executive vice chancellor.

Those initiatives are part of a program launched in February to foster minority and women participation in construction projects on campus.

Part of the program reaffirms a commitment to further the University's mission as an educational institution by continuing to work with the AGC and other organizations and institutions that support training programs to increase the number of women and minority participants in the construction industry in St. Louis.

The course is a fitting way for the University to help achieve the program's goals, said Ralph H. Thaman, director of Facilities Planning and Management. "Our mission is education," Thaman said. "This is an opportunity for us to use what we do best to give emerging business people an opportunity to learn about how to be in business and be successful."

Probing politics of social issues

Fall social work series begins Sept. 11

The George Warren Brown School of Social Work kicks off its 1998 Fall Lecture Series Friday, Sept. 11, with a day-long seminar on "Ethnicity, Families and the Life Cycle" led by Monica McGoldrick, director of the Family Institute of New Jersey.

McGoldrick, a nationally known expert on family therapy, will lecture and lead discussions about ways for therapists to tailor their services to meet the special needs of African Americans and other ethnic groups. The seminar runs from 8:30 a.m. to 5 p.m. in Room 310 Anheuser-Busch Hall. The registration fee, which includes lunch, is \$50 (registration is free to social work faculty and students).

McGoldrick's presentation is one of five lectures in the series, which this semester features talks on how environmental, political and policy concerns interact with

and are influenced by social and human welfare issues. The final four lectures in the series are free and open to the public; each will begin at 1:10 p.m. in Brown Lounge.

Oct. 1: "The Environmental Challenge to Human Welfare: Outline of a Sensible Response" by **Peter H. Raven**, Ph.D., the Engelmann Professor of Botany in the Department of Biology in Arts and Sciences and director of the Missouri Botanical Garden.

Oct. 22: "Social Issues Confronting Urban America" by **Gordon D. Bush**, mayor of East St. Louis, Ill., and **Clarence Harmon**, mayor of St. Louis.

Nov. 5: "Politics and Public Policy in the New Millennium" by **Thomas F. Eagleton**, LL.B., former U.S. Senator, D-Mo., and University Professor of Public Affairs, Washington University.

Nov. 19: "Indigenous People in a Diverse Society: Strategies for Survival and Progress" by **Hilary N. Weaver**, assistant professor, School of Social Work, State University of New York at Buffalo.

For more information, call Estelle Rochman at 935-4909.



McGoldrick: Family therapy expert

Work, families, health care, social policy topics of series

Faculty and graduate students with an interest in topics relating to labor, households, health care law and social welfare are invited to take part in a series of Monday brown-bag luncheon seminars to be held biweekly through November.

Now in its third year, the Work, Families and Public Policy Series features one-hour presentations on current research interests of faculty from across campus and from other local and national universities. The presentations, which are held in Room 300 Eliot Hall, run from noon to 1 p.m. and are followed by a half-hour discussion period.

"The seminars have been well received and supported by faculty and graduate students alike," said series co-founder Michael Sherraden, Ph.D., the Benjamin E. Youngdahl Professor of Social Development and director of the Center for Social Development at the George Warren Brown School of Social Work.

Designed to promote interdisciplinary research, the series was organized by Sherraden and Robert Pollak, Ph.D., the Herrreich Distinguished Professor of Economics in Arts and Sciences and the John M. Olin School of Business. Faculty members and graduate students from Washington University, the University of Missouri-St. Louis, and other area universities are invited to participate.

The series includes:
Sept. 14: Robert Willis, University of Michigan,

"The Theory of Out-of-Wedlock Child Bearing"

Sept. 28: Kenneth R. Troske, University of Missouri-Columbia, "New Evidence on Sex Segregation and Sex Differences in Wages from Matched Employer-Employee Data"

Oct. 12: Sharon Levin, University of Missouri-St. Louis, "Exceptional Contributions to R & D in the U.S.: Native vs. Foreign-born Scientists and Engineers"

Oct. 26: Martha Ozawa, Ph.D., Bettie Bofinger Brown Professor of Social Policy, George Warren Brown School of Social Work, "The Declining Economic Fortune of American Children"

Nov. 9: James J. Heckman, University of Chicago, "Understanding Racial Disparities"

Nov. 23: Robert Moffitt, Johns Hopkins University, "Work Incentives in the Social Security Disability Program."

The series is sponsored by the schools of business and social work, the Center for Social Development, the Department of Economics, the Graduate School of Arts and Sciences and the Committee on Social Thought and Analysis. The room is provided courtesy of the Center for the Study of American Business.

For more information, contact Pollak at 935-4918 (pollak@mail.olin.wustl.edu) or Sherraden at 935-6691 (sherrad@gwbssw.wustl.edu).

News Briefs

Tea time

The Woman's Club of Washington University will hold a "High Tea" from 12:30 to 2:30 p.m. Friday, Sept. 11, at Stix International House. Current and prospective club members are welcome to attend this annual event to open the new academic year. The Woman's Club was founded in 1910 as a social organization for the wives of University faculty and administrators. Today, its membership includes women members of the faculty, administration and staff; wives and widows of faculty, administration and staff; and alumnae or spouses of alumni. The club sponsors several events on campus, including an annual Assembly Series lecture, a dinner dance, campus tours and luncheons. It also offers scholarships to female students. For more information or to RSVP to the tea, call Pat Sarantites at 862-6615.

Research abroad

Considering applying for a fellowship under the Fulbright U.S. Student Program for study abroad? Applications for the 1999-2000 academic year are due Sept. 21. Information about the program and application forms are available in Room

201 Stix International House or at the Fulbright campus homepage at www.artsci.wustl.edu/-overseas. Call Priscilla Stone, Fulbright adviser, for additional information at 935-7647.

Two-wheeling

Free bicycle registration is available from the University Police Department. All members of the University community are encouraged to register their bicycles. Registration provides a decal and number for permanent attachment to each bicycle. Kryptonite® bike locks are available through a lend-lease program for a \$20 deposit, refundable when the lock is returned to University Police. If the lock is not returned, police keep the \$20 and consider the lock purchased. There is no penalty. When locking bicycles, be sure to secure the wheels and frame. If the front wheel and seat are removable, take them with you.

Did you know?

The Brookings Institution in Washington, D.C., evolved in part from a Washington University program and is named for Robert S. Brookings, chairman of the Board of Trustees from 1895 to 1928. The research organization



Campus quiz: This visage with its eerie expression gazes at passersby from which Hilltop building? Answer below.

was created in 1927 with the consolidation of three groups, one of which was the University's Graduate School of Economics and Government located in Washington. Brookings founded that school in the early 1920s to train University graduate students for careers in public service.

Answer: The face peers through the vines growing around Cupples I's east archway.

Record

Washington University community news

News & Comments

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Medical School Update

Scientists discover how laughing gas exerts its anesthetic effects

By JIM DRYDEN

Laughing gas — nitrous oxide — is one of the least understood general anesthetics. Discovered in the late 1700s, it has been widely used in medicine since the 1840s. But scientists have never really known how it works.

Now, School of Medicine researchers think they have found how nitrous oxide exerts its anesthetic effects. They also report that under certain conditions, the gas might damage brain cells. This finding should act as a warning to those who abuse the anesthetic gas, and it also might have implications for the use of nitrous oxide in dentistry.

In a recent issue of *Nature Medicine*, the researchers said nitrous oxide appears to slow down excitatory activity in the

Under certain conditions, the gas might damage brain cells

learning, memory and the perception of pain. In the brain, they are activated by a chemical called glutamate.

"There are two major types of anesthetics in widespread use today," Jevtovic-Todorovic said. "One group that includes barbiturates and many of the anesthetic gases inhibits communication between brain cells by promoting inhibitory transmissions. Nitrous oxide and other anesthetic drugs in a class called NMDA antagonists inhibit excitatory transmissions."

In the past, scientists assumed that nitrous oxide belonged to the first class. It was thought to promote the inhibitory transmissions of the gamma-aminobutyric acid (GABA) system, as do most of the common anesthetic drugs and gases. Only ketamine was thought to target NMDA receptors. Other NMDA antagonists include phencyclidine (PCP or angel dust), which is not in clinical use because it causes hallucinations or euphoria.

Whereas neural communication through NMDA receptors is vital to brain function, overstimulation damages neurons, as happens after stroke, head trauma and some other brain diseases. NMDA antagonists therefore are being tested as neuroprotective agents.

Fewer lesions

The investigators wanted to learn whether nitrous oxide also protects neurons, so they examined its effects in laboratory rats. They injected some rats with a chemical that normally causes brain damage by overexciting NMDA receptors. Rats that breathed in nitrous oxide had far fewer brain lesions than those who breathed only air.

Nitrous oxide appeared toxic, however, if given at high concentrations. "We found that these high concentrations caused

lesions in the rat brain," Jevtovic-Todorovic said.

She said nitrous oxide's ability to cause such damage is particularly troubling because nitrous oxide has become a drug of abuse in recent years. When people abuse the drug, she said, they "breathe nitrous oxide directly from the tank, so they can inhale levels as high as 100 percent nitrous oxide. Our studies with rats make us think that any mixture that is more than 80 percent nitrous oxide might have toxic effects in humans."

Combining anesthetics

It appears that most people who get nitrous oxide legally are

protected against those effects because anesthesiologists typically combine the gas with other anesthetics. The latter tend to be agents that work through the GABA system, and when the GABA anesthetics are combined with nitrous oxide, brain cells are protected.

"Because of the low potency of nitrous oxide, we usually add another agent to achieve the full anesthetic effect. This is usually either a benzodiazepine or a barbiturate or an inhalational anesthetic that has been shown to effect the GABA system," Jevtovic-Todorovic said. "I think we've been fortunate to have practiced anesthesia in ways that seem to

counteract the side effects of nitrous oxide."

She is concerned about the use of nitrous oxide in dentistry, however. Dentists often give patients a little laughing gas when pulling a tooth or performing other painful procedures. Usually, the dose is low and the exposure brief, so the danger of brain damage is minimal. But Jevtovic-Todorovic said that dentists might want to consider giving a GABA agent along with the gas.

"To be on the safe side, the dentist may want to complement the nitrous oxide with Valium or some other benzodiazepine that can limit the neurotoxic side effects," Jevtovic-Todorovic said.

This finding should act as a warning to those who abuse the anesthetic gas, and it also might have implications for the use of nitrous oxide in dentistry.

brain by interfering with a receptor on certain brain cells. A chemical that acts on this receptor normally activates the neurons.

Vesna Jevtovic-Todorovic, M.D., Ph.D., an instructor in anesthesiology, was principal investigator of the study, funded by grants from the National Institutes of Health and the McDonnell Center for Cellular and Molecular Neurobiology.

Receptors are sites through which a chemical messenger from one neuron signals to another neuron. Sites called N-methyl D-aspartate (NMDA) receptors are thought to play key roles in



A Talent visit Rep. James Talent, R-Mo., (right) visits the laboratory of Jeffrey Gordon, M.D., Alumni Professor and head of the Department of Molecular Biology and Pharmacology, during a recent School of Medicine visit to discuss NIH funding with William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the medical school. With Gordon (left) is M.D.-Ph.D. candidate Emily Garabedian, holding a transgenic mouse that is used as a model of prostate cancer.

Enzymes focus of Mathews' grant

FScott Mathews, Ph.D., professor of biochemistry and molecular biophysics and of cell biology and physiology, has received a four-year \$1 million grant from the National Institute of General Medical Sciences to study the reactions of certain enzymes.

"The structures of these enzymes are known, so we now are trying to understand some of their catalytic properties," Mathews said.

Enzymes catalyze the chemical reactions that are essential to life — reactions that extract energy from foodstuffs or make new components of cells and tissues. Knowledge of how they work has many medical and commercial applications.

Mathews studies a yeast enzyme that oxidizes nitrogen-containing compounds called amines. Similar enzymes — amine oxidases — occur in organisms ranging from bacteria to humans. They are unusual because they convert one of their building blocks, the amino acid tyrosine, to a substance called topaquinone. They use the topaquinone to oxidize amines.

Amine oxidases also contain a copper atom, which is needed for the conversion of tyrosine to topaquinone. Mathews wants to determine how the copper accomplishes this conversion.

With a collaborator at the University of California-Berkeley, he also will explore the mechanism of amine oxidation. His

collaborator will alter amino acid building blocks at the enzyme's active site, and Mathews will use X-ray diffraction techniques to study the resulting structures, correlating them with alterations in the enzyme's oxidative ability. The researchers want to determine which amino acid side chains are essential to the enzyme's function and uncover their specific roles.

Mathews also studies an enzyme called trimethylamine dehydrogenase, which enables the soil bacterium *Methylophilus* to grow on trimethylamine, a product of rotting vegetation.

One part of the enzyme removes electrons from trimethylamine using a cofactor called a flavin. The flavin shuttles the electrons to another site on the enzyme that contains a cluster of iron and sulfur. The electrons then pass to a second protein called the electron transfer flavoprotein. Using X-ray diffraction, Mathews hopes to uncover subtle changes in the structure of trimethylamine dehydrogenase as its flavin and iron-sulfur groups switch between their oxidized and reduced states.

"Our main interest is in electron transfer from the flavin to the iron-sulfur group," Mathews said. "We want to understand what controls the rate of electron flow. That is a key question concerning biological oxidative processes."

Bacterium avoids immune system's watchful eye Russell studies most deadly infectious organism

David G. Russell, Ph.D., professor of molecular microbiology, has received a five-year \$1.45 million grant from the National Institute of Allergy and Infectious Diseases. The grant will help support studies of the world's most deadly infectious organism. The bacterium that causes tuberculosis kills 3 million people each year and is a major threat to patients with AIDS.

Mycobacterium tuberculosis lives in white blood cells called macrophages, which ingest harmful micro-organisms. The



Russell: Molecular microbiologist

cells normally use an acidic vesicle called a lysosome to destroy the pathogens. But *M. tuberculosis* has found a way to avoid this fate — it prevents

the vacuole in which it enters the macrophage from turning into a lysosome. Sheltered in the host cell, it avoids the immune system's watchful eye.

Russell's existing studies of *Mycobacterium avium* have led to a clearer understanding of the

vacuole that houses the bacterium. He found, for example, that it lacks microbe-digesting enzymes. Using genetic tools, he now will determine how *M. tuberculosis*

makes the potentially deadly vacuole such a habitable place.

His group also will use a genetic approach to discover how *M. tuberculosis* obtains nourishment. The researchers previously found that, once inside macrophages, the bacterium boosts its production of the enzyme isocitrate lyase, part of a pathway that enables microbes to use two-carbon compounds for food. They now will determine whether inactivating genes for enzymes in this pathway prevents *M. tuberculosis* from growing in host cells. If so, the mutants might be useful as vaccines.

Russell also will study interactions between infected macrophages and other parts of the immune system. His lab

previously demonstrated that lipids from the mycobacterial wall permeate the host cell, inserting themselves into membranes. The macrophage then buds off sacs containing

The bacterium that causes tuberculosis kills 3 million people each year and is a major threat to patients with AIDS.

both host and bacterial lipids. When these sacs find their way into uninfected macrophages, they trigger a flood of interleukin-6, which blocks the activation

of immune components called T cells. *M. tuberculosis* therefore uses remote control to prevent the immune system from destroying the cells in which it resides.

Russell hopes to identify the mobile lipids. He also wants to uncover the pathways and mechanisms that allow them to move through a macrophage and into uninfected cells.

Learning more about interactions between *M. tuberculosis* and macrophages may lead to better ways to stem the spread of tuberculosis, Russell hopes.

University Events

Cajun legends BeauSoleil avec Michael Doucet brings 'spicy mix' to Edison



The world's most famous Cajun band BeauSoleil avec Michael Doucet will perform two shows Sept. 25 and 26 to open Edison Theatre's 1998-99 OVATIONS! Series season.

Louisiana legends BeauSoleil avec Michael Doucet will bring their spicy mix of Cajun music to Washington University for a pair of shows at Edison Theatre Sept. 25-26. On Sept. 25, the group will be joined by special guest stars Geno Delafosse & French Rockin' Boogie. On Sept. 26, the New Orleans Klezmer All-Stars will appear with them.

The performances, which open the 1998-99 OVATIONS! Series, begin at 8 p.m.

The world's most famous Cajun band, BeauSoleil avec Michael Doucet have spear-headed the popular resurgence of Cajun music for more than 20 years. The Lafayette, La.-based group has toured worldwide and recorded fifteen albums of original and traditional material, garnering seven Grammy nominations and one award.

Doucet has dedicated his career to preserving and recycling Cajun culture. In addition to Doucet, the band includes his brother, David Doucet, on vocals

and guitar; Jimmy Breaux on Acadian accordion; Al Tharp on bass and banjo; Billy Ware on percussion; and Tommy Alesi on drums.

Geno Delafosse began his professional music career at the age of seven when his father, famed zydeco bandleader John Delafosse, enlisted the youngster to play rubboard and drum for his band, John Delafosse and the Eunice Playboys. Though John died in 1994, Geno Delafosse has

carried on the family tradition with his "triple threat" mastery of three different accordions.

Since forming in 1991, the New Orleans Klezmer All-Stars have been at the forefront

of the recent revival of Klezmer music, a traditional, lively brand of East-European Jewish folk music.

The performances are sponsored by Edison Theatre's OVATIONS! series and are made possible in part by The Missouri Arts Council and Regional Arts Commission.

BeauSoleil

Where Edison Theatre

When 8 p.m. Sept. 25, 26

Tickets \$25, available at the Edison Theatre Box Office, 935-6543, or through MetroTix, 534-1111. Call for discounts.

High Tea • Black Holes • The Missing Link • Keyboard Conversations

Exhibitions

"Early Modern European and American Art." Opening reception Sept. 11, 5-7 p.m. Exhibit runs through Oct. 25. Upper Gallery 2, Gallery of Art. 935-4523.

"Magnificent Rome: A 16th-Century View." Opening reception Sept. 11, 5-7 p.m. Exhibit runs through Oct. 25. Lower Gallery 1, Gallery of Art. 935-4523.

"19th Century American Art." Opening reception Sept. 11, 5-7 p.m. Exhibit runs through Dec. 13. Lower galleries 3 and 4, Gallery of Art. 935-4523.

"The Realist Vision: 19th-Century European Art." Opening reception Sept. 11, 5-7 p.m. Exhibit runs through Oct. 25. Lower Gallery 2, Gallery of Art. 935-4523.

"Visible Poetry: A Survey of Illustrated Books." Through September. Special Collections, fifth floor, Olin Library. 935-5495.

Films

Friday, Sept. 11

7 and 9:30 p.m. Filmboard Feature Series. "Chinatown." (Also Sept. 12, same times, and Sept. 13, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "A Clockwork Orange." (Also Sept. 12, same time, and Sept. 13, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Tuesday, Sept. 15

7 and 9 p.m. Filmboard Foreign and Classic Series. "The Creature from the Black Lagoon." (Also Sept. 16, same times.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Thursday, Sept. 17

2:30 p.m. Russian dept. film. "Anna Karenina." Room 219 S. Ridgely Hall. 935-5517.

Friday, Sept. 18

7 and 9:30 p.m. Filmboard Feature Series. "The Big One" (Also Sept. 19, same times, and Sept. 20, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "Rocky Horror Picture Show" (Also Sept. 19, same time, and Sept. 20, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Lectures

Thursday, Sept. 10

11:15 a.m. Center for Mental Health Services Research seminar. "Currents in Poverty and Mental Health Research: Report from an NIMH Workshop." Michael Polgar, research assoc. in social work, and Adjoa Robinson, doctoral candidate. Room 39 Goldfarb Hall. 935-5741.

Noon. Genetics seminar. "Cell Cycle Regulation of the Yeast Polo-like Kinase Cdc5p." Christopher Hardy, research asst. prof. of cell biology and physiology. Room 823 McDonnell Medical Sciences Bldg. 362-3365.

4 p.m. Earth and planetary sciences colloquium. "Isotopic Structure in Potassium? Well, Yes or No." Frank A. Podosek, prof. of earth and planetary sciences. Room 362 McDonnell Hall. 935-5603.

4 p.m. Joint Center for East Asian Studies Colloquium Series. "Hyphenated Identities." Harry H.L. Kitano, prof. of social welfare and sociology, UCLA. Room 331 Social Sciences and Business Bldg., UMSL. 935-4448. (See story on page 6.)

4 p.m. The Cancer Center Seminar Series. "Gene Transfer into Hematopoietic Stem Cells: Biological Solutions to Practical Problems." David Bodine, chief, Hematopoiesis Section, NIH, Bethesda, Md. Third Floor Aud., Children's Hospital. 747-0359.

4 p.m. 22nd annual Mildred Trotter Lecture. "B3Linking Cognition, Brain and Gene: Clues from Genetically-based Syn-dromes=B2." Ursula Bellugi, dir., Laboratory for Cognitive Neuroscience and prof., Salk Institute for Biological Studies. Cori Aud., 4565 McKinley Ave. 362-3365.

Friday, Sept. 11

8:30 a.m.-5 p.m. Social Work Fall Lecture Series seminar. "Ethnicity, Families and the Life Cycle." Monica McGoldrick, dir. Family Institute of N.J. Cost: \$50; free to social work faculty and students. Room 310 Anheuser-Busch Hall. 935-4909.

9:15 a.m. Pediatric Grand Rounds. "State of the Department." Alan L. Schwartz, the Harriet B. Spoehrer Professor, head of pediatrics and prof. of molecular biology and pharmacology. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Regulation of the Eukaryotic Cell Cycle: Mitotic- and G2 Checkpoint-Control." Helen M. Piwnicka-Worms, prof. of cell biology and physiology. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

12:30-2:30 p.m. High Tea. Hosted by the Woman's Club of Washington U. Open to members and prospective members. Stix International House. RSVP 862-6615.

Monday, Sept. 14

Noon. Molecular biology and pharmacology seminar. "Using Transgenic Mouse Models to Explore the Gastric Ecosystem." Jeffrey I. Gordon, prof. of medicine, Alumni Professor and head of molecular biology and pharmacology. Pharmacology Library: The Philip Needleman Library, Room 3907 South Bldg. 362-2725.

Noon-1 p.m. Work, Families and Public Policy Series brown bag lunch seminar. "The Theory of Out-of-Wedlock Child Bearing." Robert Willis, University of Michigan. Room 300 Eliot Hall. 935-4918 or 935-6691.

2:15 p.m. Physics condensed matter seminar. "What is the Resistance of a Molecule?" Supriyo Datta, School of Electrical and Computer Engineering, Purdue U. Room 241 Compton Hall. 935-6276.

4 p.m. African and Afro-American studies panel discussion. "Odundo, A Philadelphia Story: The Historical, Cultural and Personal Accounts of the Creation of an African Festival in an American City." Women's Bldg. Formal Lounge. 935-5690.

4 p.m. Biology lecture. "Genes Blossom From a Weed: The Arabidopsis Genome Initiative." Joseph R. Ecker, prof. of

biology, U. of Pa. Room 322 Rebstock Hall. 935-7196.

4 p.m. Immunology Research Seminar Series. "Primary Immunodeficiency Diseases as Crucial Experiments of Nature." Robert A. Good, Distinguished Professor, physician in chief and head of allergy and immunology, pediatrics dept., All Children's Hospital, U. of S. Fla. Eric P. Newman Education Center. 362-2763.

5:30 p.m. Mallinckrodt Institute of Radiology lecture. Sixth annual G. Leland Melson Visiting Professorship and Lecture. "Pancreatic Sonography: What's New." Philip W. Ralls, prof. of radiology and head of diagnostic radiology div., USC. Scarpellino Aud., first floor, Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd. 362-2866.

Tuesday, Sept. 15

12:10-12:55 p.m. Physical therapy research seminar. "PET Studies of Dopa-induced Dyskinesias." Tamara Hershey, research assoc. in psychiatry. Classroom C, lower level. 4444 Forest Park Blvd. 286-1400.

4 p.m. African and Afro-American studies lecture. "Breaking the Silence: Colonial Women in Italian Africa." Ruth Iyob, prof., UMSL. Room 103 Eads Hall. 935-5690.

William Jay Smith shares 'World Below the Window'

University Libraries will present poet William Jay Smith reading from his new collection, "The World Below the Window: Poems 1937-1997," at 3 p.m. Sept. 19. The event, which is free and open to the public, will take place in Room 300 Brookings Hall.

One of American poetry's recognized masters, Smith is the author of more than 50 volumes, including poetry, children's verse, literary criticism, translation and memoirs, and the editor of several anthologies. Raised in St. Louis and a University alumnus (B.A. '39, M.A. '34), Smith served as consultant in poetry to the Library of Congress (a position now called poet laureate) from 1968 to 1970. Two of his poetry collections have been nominated for the National Book Award and his account of growing up near Jefferson Barracks, "Army Brat: A Memoir" (1980), was praised by Eudora Welty and Ralph

Poetry Reading

Where Room 300 Brookings Hall

When Sept. 19, 3 p.m.

Admission Free and open to the public; RSVPs to 935-5495 appreciated

Ellison, among others. Smith's translations have won awards from the French Academy and the Swedish Academy, and he was the first American to win the Hungarian government's Gold Medal of Labor, given to him for his translations of Hungarian authors.

In 1975, he became a member of the American Academy of Arts and Letters, where he served as vice president for literature. Smith is now professor emeritus of English at Hollins College in Virginia and spends his time in Cummington, Mass., and Paris.

Smith's papers, a collection of approximately 16,000 items, are

one of the largest holdings in the University Libraries' Modern Literary Manuscript Collection. His extensive correspondence includes hundreds of letters from literary figures dating back to the 1940's — Tennessee Williams and Elizabeth Bishop among them — as well as a substantial group from Russian, Hungarian and other Eastern European authors.

Smith's papers also include manuscripts and editorial material towards all of his published work, as well as a large collection of manuscripts by other authors.

For more information, call 935-5495.



Smith: Master of Poetry

4 p.m. Biochemistry and molecular biophysics seminar. "Structure Dynamics and Thermodynamics of Molecular Switches." Linda Nicholson, asst. prof., biochemistry section, Cornell U. Erlanger Aud., McDonnell Medical Sciences Bldg. 362-0261.

7:30 p.m. School of Art Lecture Slide Series. Deborah Frazier, visiting artist. Steinberg Aud. 935-8404 or 935-7497.

Thursday, Sept. 17

4 p.m. Chemistry seminar. "Mechanisms of DNA Damage by Leinamycin and Other Sulfur-containing Antitumor Antibiotics." Kent Gates, prof. of chemistry, UM-Columbia. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Early Life on Earth: The Rock Record." Maud M. Walsh, asst. prof., Research Institute for Environmental Studies, LSU. Room 362 McDonnell Hall. 935-5603.

4 p.m. Performing arts lecture. "Deconstructing 'Minstrels Past': A Case Study in Identity, Resistance and Survival Through Performance." Robin Marie Wilson, visiting artist. Room 102 Eliot Hall. 935-5690.

Friday, Sept. 18

8 a.m. Mallinckrodt Institute of Radiology Radiation Oncology Center lecture. The Norman K. Probststein Oncology Lecture. "Brachytherapy in Localized Carcinoma of the Prostate." Dattatreya N. Nori, chair of radiation oncology, N.Y. Hospital-Cornell Medical Center. Scarpellino Aud., first floor, Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd. 362-9713.

9:15 a.m. Pediatric Grand Rounds. "Some Philosophical Musings About Human Origins: Are We The Missing Link?" Glenn C. Conroy, prof. of anatomy and neurobiology and of anthropology. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Conformational Changes in Proteins: How Small is Big Enough?" Daniel E. Koshland Jr., prof. of molecular and cell biology, UC-Berkeley. Room 426 McDonnell Medical Sciences Bldg. 362-6060.

2 p.m. Performing arts lecture. "Treemountriver": An Interaction of Breath, Body and Sound." Robin Marie Wilson, visiting artist, and Ingrid Monson, asst. prof. and the Harbison Faculty Fellow in music. Tietjens Rehearsal Hall. 935-4841.

Music

Sunday, Sept. 13

7:30 p.m. Concert. Pierce Pettis with Don Conoscenti. Cost: \$10; free to students. Ike's Place, Wohl Center. 935-7576.

Monday, Sept. 14

2:30 p.m. Piano recital and reception. Fourth annual Lifelong Learning Institute recital and reception. "Keyboard Conversations with Clara Schumann."

Seth Carlin, prof. of music. Steinberg Aud. 935-4237.

Saturday, Sept. 19

10 p.m. Concert. The Nields. Cost: \$8 for faculty and staff; free to students. The Gargoyle. 935-7576.

Miscellany

Thursday, Sept. 17

7:30 p.m. Feminist reading group meeting. "Only Paradoxes to Offer: French Feminists and the Rights of Man" by Joan W. Scott. Cohen Lounge, Room 113 Busch Hall. 935-5102.

Performances

Thursday, Sept. 10

8 p.m. Performing arts dept. performance. "Dance Close-Up." Dance faculty perform seven works in a variety of dance styles. (Also Sept. 11 and 12, same time, with a special benefit performance Sept. 13, 3 p.m.) Dance Studio, Room 207 Mallinckrodt Center. For costs, call 935-5858.

Sports

Friday, Sept. 11

5:30 p.m. Washington U. Classic. Volleyball team vs. Trinity U. Field House. 935-5220.

7:30 p.m. Washington U. Classic. Volleyball team vs. U. of Wis.-Whitewater. Field House. 935-5220.

Saturday, Sept. 12

10 a.m. Washington U. Classic. Volleyball team vs. Illinois College. Field House. 935-5220.

10 a.m. Washington U. Invitational. Men's and women's cross country. Tower Grove Park, St. Louis. 935-5220.

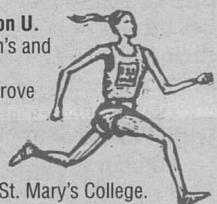
1 p.m. Women's soccer team vs. St. Mary's College. Anheuser-Busch Soccer Park, Fenton, Mo. 935-5220.

1:30 p.m. Football team vs. Wheaton College. Francis Field. 935-5220.

3 p.m. Washington U. Classic. Volleyball team vs. U. of Wis.-Oshkosh. Field House. 935-5220.

Sunday, Sept. 13

Noon. Women's soccer team vs. Wittenberg U. Francis Field. 935-5220.



Dance as resistance and healing

Choreographer Robin Marie Wilson is visiting artist

Dancer-choreographer Robin Marie Wilson will be a visiting artist in the Performing Arts Department's Dance Program in Arts and Sciences Monday through Saturday, Sept. 14-19.

Wilson will conduct master classes in modern and Afro-Caribbean dance techniques and present two lectures on her work. She also will audition and train selected students in the performance of her work "Treemount-river," which will be performed as part of the Washington University Dance Theatre in early December.

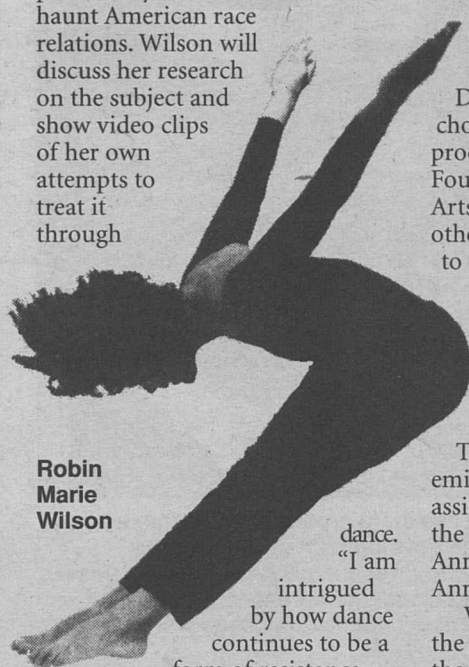
On Sept. 17, Wilson will present a lecture titled "Deconstructing 'Minstrels Past': A Case Study in Identity, Resistance and Survival Through Performance" at 4 p.m. in Room 102 Eliot Hall. For more information, call 935-5690.

On Sept. 18, Wilson will present "'Treemount-river': An Interaction of Breath, Body and Sound," a discussion of her choreography co-hosted by Ingrid Monson, assistant professor and the Harbison Faculty Fellow in the Department of Music in Arts and Sciences. The talk begins at 2 p.m. in Tietjens Rehearsal Hall. For more information, call 935-4841.

Both lectures are free and open to the public.

"Minstrels Past" (1998) is Wilson's attempt to come to grips with the legacy of the minstrel

show, which enjoyed wide popularity in the 19th and early 20th centuries and played a key role in defining and propagating many of the stereotypes — the Uncle Tom, the Mammy, the pickaninny — that continue to haunt American race relations. Wilson will discuss her research on the subject and show video clips of her own attempts to treat it through



Robin Marie Wilson

dance. "I am intrigued by how dance continues to be a form of resistance against oppression," Wilson said. "Dance is a kind of rebellion as well as a healing force. A number of men and women of my age have been examining and reclaiming these sorts of images. It's a way of taking that image and provocatively deconstructing it, a way of confronting and disem-boweling it."

A 1977 graduate of Washington University's Dance Program, Wilson is a founding member of the New York dance troupe Urban Bush Women and has performed with Diane McIntyre's Sounds in Motion Dance Company, among others. A modern dancer and specialist in African

Diasporic dance forms, her choreography has been produced by the Harlem Dance Foundation, the Bluegrass Black Arts Consortium and numerous other organizations. From 1990 to 1993 Wilson was a Kentucky artist-in-residence with The Kentucky Arts Council and she also served as a consultant and television host for the Kentucky Center for the Arts/KET-TV project "Killer of Enemies." Wilson is currently assistant professor of dance at the University of Michigan in Ann Arbor and a member of Ann Arbor Dance Works.

Wilson's visit is sponsored by the College of Arts and Sciences, the Performing Arts Department, the music department, the African and Afro-American Studies Program in Arts and Sciences, Student Services, the Black Alumni Council, the Office of Student Activities, Student Educational Services, the Office of the Dean of Students and the Association of Black Students.

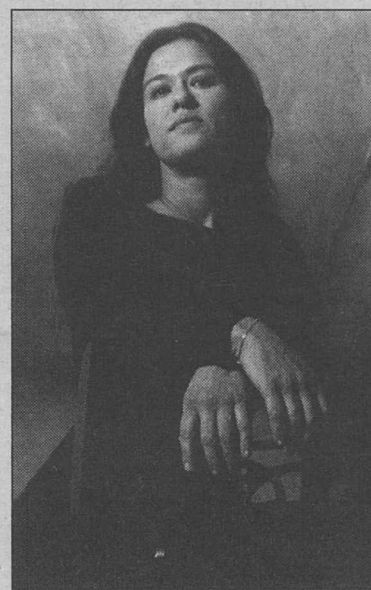
Award-winning filmmaker

Barbara Kopple to speak

Barbara Kopple, one of the most important documentary filmmakers today, will deliver a lecture for the Assembly Series titled "The Art of the Documentary Film" at 11 a.m. Wednesday, Sept. 16. The lecture, which is free and open to the public, will take place in Graham Chapel.

Kopple first gained acclaim with her 1976 film "Harlan County USA," the story of a miners' strike and the dangerous opposition the striking workers faced. In 1977, the film won an Academy Award for Best Feature Documentary and, in 1991, was named to the National Film Registry by the U.S. Congress and designated an American Film Classic. She received a second Academy Award for her documentary "American Dream," which explored the human cost of the rapid economic decline in America's industrial heartland. "American Dream" swept the 1991 Sundance Film Festival awards, winning the Grand Jury Prize, the Audience Award and the Filmmaker's Trophy.

Kopple recently completed "Defending Our Daughters," a documentary about women's human rights that was honored with the Voices of Courage Award by the Women's Refugee Committee. She also recently pro-



Barbara Kopple: Assembly Series speaker

duced and directed two short films for the Presidents' Summit for America's Future, a national conference on volunteer and community service chaired by President Clinton and General Colin Powell.

Kopple has been honored with the Cannes Film Festival Critics Choice Award, the National Society of Film Critics Award and the American Film Institute's Maya Deren Award.

For more information on the lecture, call 935-5285.

Sports Section

Football Bears win

Washington University's defense put the Bears on the scoreboard Saturday at Rose-Hulman Institute of Technology, and a young offense took over after halftime in the team's 34-0 season-opening triumph. WU's defensive troops forced five fumbles and picked off one pass and accounted for the Bears' first points. Junior defensive end Tim Runnalls picked up a loose ball and returned it 38 yards for a touchdown just 1 minute, 32 seconds into the season. The quarterback combination of senior Alan Barnette and sophomore Greg Lake completed 17 of 24 passes for 223 yards and a pair of touchdowns. The Bears, who led 7-0 at halftime, exploded for 27 second-half points, including 20 in a span of 3:46 during the fourth quarter. The team opens its 1998 home schedule Saturday vs. Wheaton College.

Volleyball takes title

The volleyball team began its quest to regain the national title in fine form, winning the Skyline Chili/Thomas More College Volleyball Classic last weekend in Crestview Hills, Ky. The Bears didn't drop a game as

they beat Franklin, John Carroll and host Thomas More in pool play and Wittenberg in the championship match. Seniors Jen Martz, Jenny Cafazza and Meg Vitter earned all-tournament honors. Martz hit .310 with 33 kills and led the Bears with 15 aces and 14 total blocks. Cafazza had 30 kills and 22 digs while Vitter tallied 114 assists, eight aces and 18 digs. The win over Wittenberg gave coach Teri Clemens 496 for her career.

Men's soccer second

The 16th-ranked men's soccer team finished second at the Wheaton College Invitational over the weekend. The Bears blanked 13th-ranked Muhlenberg College 1-0 on Friday before falling to top-ranked host Wheaton 2-1 in overtime Saturday in the championship game. Wheaton has not lost in 48 consecutive games and is the defending national champion.

Women's soccer splits

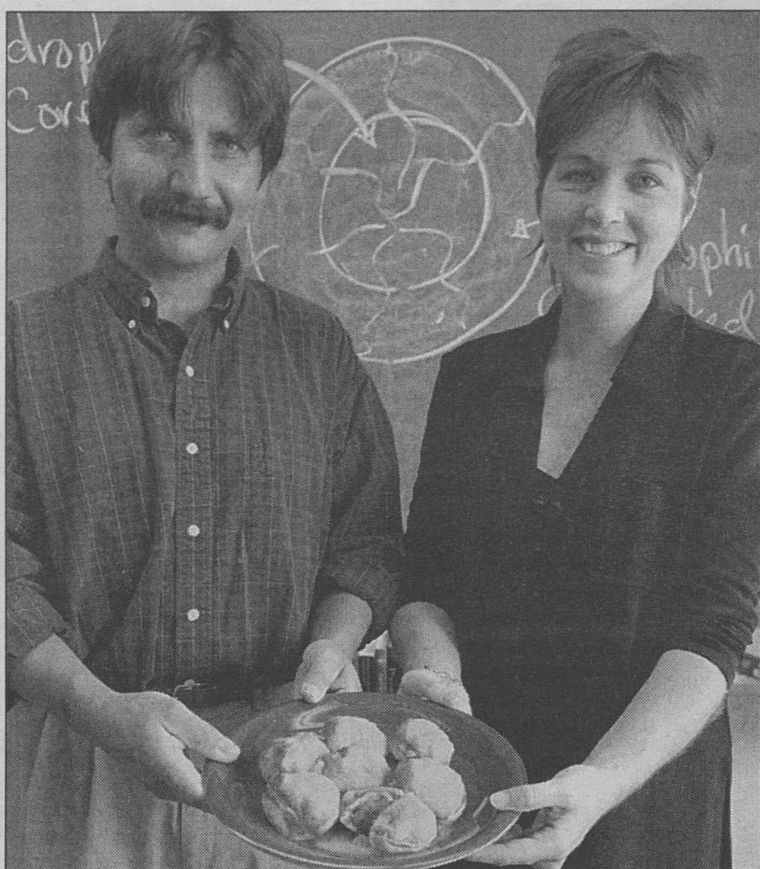
The women's soccer team took on a pair of nationally ranked teams this weekend and came away with a win and a loss. The Bears opened the season with a convincing 5-0 victory over 16th-ranked Gustavus Adolphus on Saturday.

Junior forward Rachel Sweeney tallied two goals and sophomore Erin Waller added a goal and an assist in her first game as a Bear. Trisha Young and Lauren Hyer each added goals, and Lori Thomas and Jessica Glick had assists. Freshman goalkeeper Stephanie Peters, making her first collegiate start, made four saves as she posted the shutout. Peters made eight saves and gave up just one goal Sunday against third-ranked Macalester, but the Bears fell 1-0.

Runners take second

The men's and women's cross country teams traveled to Northwest Missouri State last Saturday for the Bearcat Distance Classic, and each took second place behind Division I Nebraska. Senior Emily Richard paced the women, taking second place in 15 minutes, 2 seconds. Junior Tim Julien led the men with a third place showing, finishing in 19:57. The Bears host the Washington University Invitational this Saturday in Tower Grove Park at 10 a.m.

Compiled by Kevin Bergquist, director, sports information, and Keith Jenkins, asst. director, sports information. For up-to-date news about Washington University's athletics program, access the Bears' Web site at rescomp.wustl.edu/~athletics/.



Karen L. Wooley, Ph.D., (right) assistant professor of chemistry, has made new breakthroughs in the development of microscopic particles called knedels for use in drug and gene therapies. Tomasz Kowalewski, Ph.D., (left) research assistant professor of chemistry, named them for their resemblance to these dumplings from his native Poland.

Knedels

Particle promising as new drug delivery system

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linear chains self-assemble into a three-dimensional structure stabilized by linking with chemical bonds between two residues of amino acids. These cross-linkings hold everything together.

The knedel is constructed in a similar fashion. Wooley and her colleagues form a polymer micelle composed of as few as 10 to as many as several hundred chains, assembled into a glassy sphere with a core that does not mix with the shell or the outer environment. Chemical reactions within the shell bind the chains together and give the stabilized, cross-linked structure.

"The knedel is a very simple approach that offers versatility for composition of the particles," she said. "We can control the size of the core, the thickness of the shell and the overall size of particles as well as the core and shell compositions. This will enable us to control the properties and function of the particles in their environment."

Wooley has future plans to

incorporate degradable polymers into the knedel structure. She and graduate students Jennifer Weinberg and Min Wang have developed new degradable polymers that they can time to fall apart in water in anywhere from a few minutes to a few months. Adding this feature to a drug-bearing knedel would give the particle time-release capabilities.

Wooley also is working on modifications to the knedel's shell. She wants to make it flexible so that when it comes into contact with proteins, the shell won't cause proteins to stick and denature, which is an altering of molecular structure.

As for the name, after Wooley and her group constructed the polymer particles, they tried to see them with a standard electron microscope, but the particles were too small. They turned to University colleague and Polish native Tomasz Kowalewski, Ph.D., a research assistant professor of chemistry who is an expert in atomic force microscopy (AFM), a new, powerful microscope that can visualize nature's tiniest objects. Kowalewski operates an AFM at the University.

"Tomasz said: 'Oh, they look like knedels. You must call them that.' And that's how they got their name," Wooley said.

Lectures explore Asian diasporas

Experiences of the Japanese in America, Chinese in Latin America and Koreans in Japan are among topics to be discussed in a series of six lectures on "East Asian Diasporas" being sponsored this year by the Joint Center for East Asian Studies.

A combined education and research program of Washington University and the University of Missouri-St. Louis (UMSL), the Joint Center sponsors an annual colloquium series exploring a current issue in East Asian studies. There will be three lectures here and three at UMSL.

The first lecture — "Hyphenated Identities: The Japanese-American" by Harry H.L. Kitano, professor, School of Public Policy and Social Research, University of California, Los Angeles — will be presented at 4 p.m. Thursday, Sept. 10, in Room 331, Social Sciences and Business Building on the UMSL campus.

Additional lectures this semester include "The East Asian Diaspora in the Americas" by Roger Daniels, University of Cincinnati, Oct. 8 at Washington University, and "Koreans in Japan

and in the Americas" by George A. DeVos, University of California at Berkeley, Nov. 12 at UMSL.

Lectures next semester will cover religion in Asian-American communities, trends in Asian-American literature and the Chinese diaspora in Latin America.

For room locations or other information, call 935-4448.

Edwin Fisher and lung association team up on book to help smokers quit

BY JIM DRYDEN

Prior to the first Surgeon General's Report on Cigarette Smoking in 1964, about half of all adult Americans lit up. That number has declined in the last 30 years, but about one in four adults still smoke. Many of them would like to quit, so the American Lung Association (ALA) and a Washington University researcher have written a book to help them.

Called "7 Steps to a Smoke-Free Life," the book is based on the ALA's award-winning "Freedom From Smoking" program. Both the book and the program are designed to help smokers better understand their addiction and prepare to quit.

"The more you identify the reasons why you smoke and the reasons you want to quit, the more likely you'll be successful," said Edwin B. Fisher Jr., Ph.D., professor of psychology in Arts and Sciences and of medicine and of pediatrics in the School of Medicine. He also is director of the medical school's Division of Health Behavior Research.

According to the ALA, an estimated 46 million Americans smoke cigarettes, and more than two thirds — 32 million — would like to stop. Each year, 34 percent of smokers actually try to quit. Most fail, at least at first.

In the book, Fisher draws on his own experience as a smoker who once faced the prospect of attempting to quit. As a former nicotine addict, he can empathize with those trying to quit now.

"It's a bit like learning to ride a bike," he said. "Falling and skinning your knees is often part of the process. When working with smokers, I never say 'it's just a matter of making up your mind to quit.' I know that quitting smoking is very hard. It took me 10 or 12 attempts before I succeeded."

The book lists several mind-numbing statistics about smoking that many people don't consider when they light up. For example, smoking is the greatest source of preventable death in our society. Smokers die an average of six to

Seven steps to quitting smoking

Edwin B. Fisher Jr.'s seven steps form a road map for smokers who want to quit, though not every cessation technique fits every would-be nonsmoker. Fisher said nicotine patches, inhalers, books, videos and group meetings can be helpful, but tools must be tailored to individual needs. These tools fit into the broader framework described by the seven steps:

1) **Recognize your habit and your addiction** — Paying more attention to when you smoke and what makes you light up can teach you a good deal about why you smoke and help you develop strategies for quitting.

2) **Build your motivation to quit** — List the pros and cons of smoking and quitting, including health concerns and social pressures to quit. Then write down your top five reasons for quitting.

3) **Develop a quitting plan** — Would you rather go it alone or with a group? Would quitting cold turkey or gradually be

preferable? Do you want to use medications to boost your efforts?

4) **Set a quit date**

5) **Quit** — Get rid of all of the cigarettes, ashtrays, matches and lighters in the house. Keep your top five quitting reasons with you and refer to it when you crave a cigarette.

6) **Maintain your program for the first two weeks** — The cravings will subside, and you will begin to feel better in a few days, though irritability, nervousness, sleep problems, difficulty concentrating and coughing may last for a few weeks.

7) **Survive the first six months** — The physical addiction subsides after a week or two, but psychological cues can still give you the urge to light up.

"The first six months after quitting smoking are the most difficult," Fisher said. "But the person can focus on the tremendous health benefits of not smoking. They'll feel better, have more energy and live longer."

eight years earlier than nonsmokers. Eighty-seven percent of all lung cancers are caused by smoking. Every year, more Americans die from smoking-related diseases than from AIDS, drug abuse, car accidents and homicide — combined.

But many who quit simply for the health benefits become discouraged if they don't see the advantages of not smoking in their daily lives. Fisher therefore offers suggestions on how to find the payoffs of smoking cessation within hours of quitting.

Though smokers are at very high risk for cancer, heart disease and emphysema, the risks for heart disease decline within hours of the last cigarette. When smokers quit, their blood can carry more oxygen to the rest of the body, so the heart doesn't have to work as hard. That is significant because smoking kills more people from heart disease than from cancer. And the further away people get from that last cigarette,

the nearer their other risks return to those of nonsmokers — after 10 years, the lung cancer risk for ex-smokers is as low as that for those who never smoked.

Other health benefits allow former smokers to exercise harder and for longer periods of time just a few days or weeks after quitting. And there are obvious economic benefits. At a couple of dollars a pack, smokers can save hundreds of dollars annually by quitting. Plus, with smoking limited in most public buildings, smokers can use the regulations to help them quit.

"The funny thing about quitting," Fisher added, "is that if you really know why you want to quit, then the rules and regulations that used to bug you will become your assistants. Rather than feeling hassled to do something you know you should do, you'll realize that the rules and regulations support what you have chosen to do for yourself."

United Way

University sets \$375,000 campaign goal for 1998

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campaign, but last year's goal of \$360,000 was exceeded through the generosity of University employees. A pledge card and a letter from Chancellor Mark S. Wrighton announcing this year's campaign launch will be mailed to every employee this week.

The campaign should get a lift from some innovative fundraising ideas. West Campus drew attention to the cause by serving Ted Drewes Frozen Custard at its own kick-off party for the campaign

Wednesday, Sept. 9. Facilities Planning and Management plans to hold a garage sale in October, selling items donated by department employees. And both West Campus and Facilities will hold raffles to raise additional funds.

This year, Wrighton hopes to achieve — even exceed — the campaign goal, as well as increase donor participation. "We need to be seen as the institution we are, one that cares about its community," Wrighton told the gathering of about 50 departmental

campaign coordinators. "If St. Louis thrives, so, too, will we. If we thrive, the community will be boosted as well."

Marcus, now an administrative assistant in the Office of Student Activities, is herself thriving, thanks in part to the help she received through the United Way. "I'm in remission," she said. "And my husband — who made a promise to me between diagnosis and treatment — is taking me to Greece at the end of the month."

Campus Watch

The following incidents were reported to University Police from Aug. 31–Sept. 8. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

Sept. 2

9:59 p.m. — A student reported the theft of a locked bicycle valued at \$750 from a rack at Monsanto Laboratory.

Sept. 5

11:25 a.m. — A Bon Appétit employee reported the theft of cash and a neon sign, together worth \$1,587, from the Bear Mart, which had been locked, in Wohl Center.

Sept. 6

1:52 a.m. — A student sustained minor injuries in a fight with

another student outside Koenig Residence Hall. The incident has been referred to the Judicial Administrator.

Sept. 7

5:39 p.m. A student reported the theft of a bicycle from summer storage on Fraternity Row. University City police recovered the bicycle and arrested a suspect.

University Police also responded to nine additional reports of theft, three additional reports of bike theft, two reports of trespassing, two reports of vandalism, three auto accidents, an attempted burglary and a peace disturbance.

Employment

Use the World Wide Web to obtain complete job descriptions. Go to cf6000.wustl.edu/hr/home (Hilltop) or medicine.wustl.edu/wumshr (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Library Technical Assistant (Serials) 990062

Library Technical Assistant 990064

Graduate Secretary 990065

Accounting Clerk 990070

Associate Dean and Director of Executive Programs 990073

Medical Campus

This is a partial list of positions at the School

of Medicine. Employees: Contact the medical school's Department of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Medical Secretary II 990203

Clerk II 990218

Purchasing Assistant I 990230

Purchasing Assistant I 990249

Secretary II 990259

Research Animal Standards Coordinator 990327

Network Technician I 990329

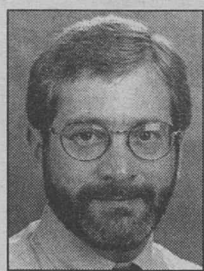
Social Worker/Family Therapist 990359

Notables

Hillel J. Kieval to be installed as director of Jewish studies, Goldstein Professor

Hillel J. Kieval, Ph.D., a leading scholar of the Jewish experience in Europe, has joined the University's Arts and Sciences faculty as a professor of history and director of the Jewish and Near Eastern Studies Program. On Oct. 15, he will be installed as the Gloria M. Goldstein Professor of Jewish History and Thought.

"We are delighted to have Professor Kieval join the Arts and Sciences faculty," said



Kieval: Expert in Jewish experience

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts and Sciences. "He comes to Wash-

ington University having already produced distinguished scholarship in his field; he is an excellent teacher and also has great experience working across disciplines, which will serve him well as director of our Jewish and Near Eastern Studies Program. This interdisciplinary program is enjoying great — and growing — interest from our students, who are quite interested in learning about the foundations of the world's religions. I am sure the program will thrive under his leadership."

Kieval served on the faculties of Brandeis University and the University of Washington in Seattle, where he taught from 1980 to 1982 and from 1985 to 1998, respectively. He chaired the University of Washington's Interdisciplinary Program in

Jewish Studies for nine years. During this time, the program underwent significant growth and development and achieved a position of distinction among its peers in North America. In 1997, Kieval was promoted to full professor and awarded the University of Washington's Samuel and Althea Stroum Chair in Jewish Studies.

A student of the Jewish experience in Europe since the 18th century, Kieval's research interests range widely: from Jewish acculturation and integration in Central and Eastern Europe to the impact of national and ethnic conflict on the formation of modern Jewish identities, and from the discursive practices of modern anti-Semitism to Jewish collective responses to Nazi genocide. The focus of his work typically has been on the "fault lines" of the European-Jewish relationship, on the breakdown and rearrangement of social boundaries and on the social construction of prejudicial knowledge.

He was awarded the Stanley Z. Pech Award from the Czechoslovak History Conference in 1994. In 1997, Kieval served as Lady Davis Visiting Professor at the Hebrew University of Jerusalem.

Kieval received a bachelor's degree in history and literature, summa cum laude, from Harvard University in 1973. After spending a year at the University of Strasbourg on a prize fellowship, he returned to Harvard and earned two graduate degrees in history — a master's in 1975 and a doctorate in 1981. From 1977 to 1980, he held a Junior Fellowship in the

Society of Fellows at Harvard.

The Goldstein professorship was created in 1983 as a result of a generous donation from Samuel R. Goldstein in memory of his wife, Gloria M. Goldstein. The professorship was established to bring to the University an exceptional scholar and teacher in the area of Jewish studies.

In addition, the individual appointed to the chair, through research, teaching and interaction with colleagues, brings to the University and to the larger community an increased awareness and understanding of the Holocaust, its origins, history, significance and consequences. The individual's field of scholarship may be in any one of a number of traditional academic disciplines — history, literature, philosophy, political science or psychology.

The Goldstein professorship complements existing programs at the University — the Judaica collections in Olin Library and the Jewish and Near Eastern Studies Program, which offers a major in the history, culture and thought of the Jewish people.

Goldstein, a retired chairman of the board of directors of Apex Oil Co. in St. Louis, is a life member of the University's William Greenleaf Eliot Society. He has been an active leader for many years in St. Louis civic organizations and in the petroleum industry and has lived in the St. Louis area since joining Apex in the 1940s.

Law school promotes four in student services

Daniel L. Keating, J.D., dean of the School of Law, has announced four promotions within the school's student services.

Mark W. Smith, J.D., formerly associate dean for student affairs at the law school, has been named associate dean for student services. Smith, who will continue to serve as director of the school's graduate tax program, joined the law school administration in 1991 as assistant dean for student affairs. A 1986 law school alumnus, he served as associate editor of the *Journal of Urban and Contemporary Law*. He received a bachelor's degree with honors from Harvard University in 1982.

Katherine Goldwasser, J.D., professor of law, will succeed Smith as associate dean for student affairs. Goldwasser, who joined the law faculty in 1990, advises the Wiley Rutledge Moot Court Competition and chaired the Student Issues Task Force for the school's self-study last year. In addition to teaching two law courses per year, Goldwasser's new duties will include student counseling and support as well as academic matters, such as scheduling, exams and commencement. Goldwasser received a bachelor's degree with honors from the University of Illinois in 1971 and a law degree, summa cum laude, from Temple University in Philadelphia in 1978.

Smith will be assisted by **Peggy McCartney, J.D.**, formerly assistant director of placement in the Career Services Office, and **Tomea C. Mayer, J.D.**, formerly visiting assistant professor of legal writing and faculty adviser for the Wiley Rutledge Moot Court Competition.

McCartney has been promoted to the newly created position of director of public placement. Her primary responsibility will be assisting students in job searches who wish to work in the public sector, including in government, public interest and judicial clerkships. McCartney, who joined the law school administration in 1996, received a bachelor's degree with distinction from Purdue University in 1987 and a law degree from Indiana University School of Law in 1990.

Mayer returns to the law school from her most recent position as director of legal recruiting at the St. Louis law firm of Thompson Coburn. In the law school's newly created position of director of private placement, Mayer will assist students who are seeking employment in the private sector, including at law firms and in-house legal positions. A 1991 graduate of the law school, Mayer served as a board member on the University's *Journal of Urban and Contemporary Law* and was selected to the Order of the Coif. She received a bachelor's degree from the University of Virginia in 1988.

Campus Authors

James V. Wertsch, Ph.D., professor and chair of the Department of Education in Arts and Sciences

Mind as Action

(Oxford University Press, 1998)

Contemporary social problems typically involve many complex, interrelated dimensions — psychological, cultural and institutional, among others. But today, the social sciences have fragmented into isolated disciplines lacking a common language, and analyses of social problems have polarized into approaches that focus on an individual's mental functioning over social settings, or vice versa.

In "Mind as Action," Wertsch argues that current approaches to social issues have been blinded by the narrow confines of increasing specialization in the social sciences. In response to this "conceptual blindness," he proposes a method of sociocultural analysis that connects the various perspectives of the social sciences in an integrated, nonreductive fashion.

Wertsch maintains that we can use mediated action, which he defines as the irreducible tension between active agents and cultural tools, as a productive method of explicating the complicated relationships between human action and its

manifold cultural, institutional and historical contexts.

Drawing on the ideas of Lev Vygotsky, Mikhail Bakhtin and

Kenneth Burke, as well as research from various fields, this book traces the implications of mediated action for a sociocultural analysis of the mind, as well as for some of today's most pressing social issues.

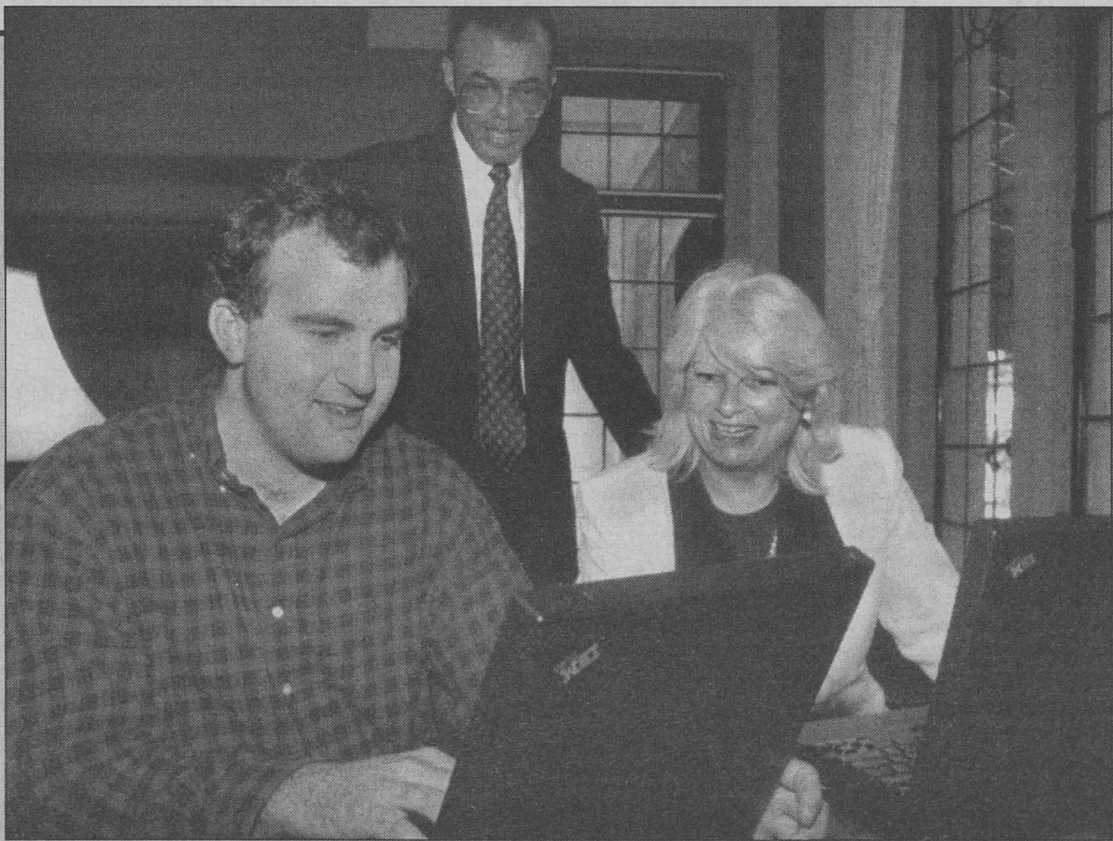
Wertsch's investigation of forms and mediated action such as stereotypes and historical narratives provide valuable new insights into issues such as the mastery, appropriation and resistance of culture. By providing an analytic unit that has the possibility of operating at the crossroads of various disciplines, "Mind as Action" will be important reading for academics, students and researchers in psychology, linguistics, cognitive science, sociology, literary analysis and philosophy.

(Excerpted from book jacket.)

A recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5500 (Hilltop Campus) or 362-3240 (Medical Campus).



Wertsch: Proposes mediated action



Hands-on experience Joshua Karch (left), a senior engineering major, test drives one of four laptop computers donated to the Office of Disabled Student Services by IBM Corp. IBM executives David G. Fitzpatrick, who received a master of business administration degree from the University in 1972, and Jean Morrell were on hand for the Sept. 2 Whittemore House event marking the donation. Karch was the University's first participant in IBM's Diversity Campus Executive Program, which aims to offer high-tech engineering opportunities to students with disabilities.

Obituaries

Elizabeth Williamson, former social work admissions director

Elizabeth R. Williamson, a long-time director of admissions and student resources at the George Warren Brown School of Social Work, died Tuesday, Sept. 1, 1998. She was 81.

Williamson joined the school

in 1965 and began handling school admissions programs in the early 1970s. She retired in 1983 but remained active and involved with the school, its students and alumni.

A memorial service was held Sunday, Sept. 6, in

Graham Chapel, followed by a reception in Brown Lounge. Donations in her memory can be made to the Elizabeth R. Williamson Scholarship Fund, Washington University, Campus Box 1196, St. Louis, MO 63130-4899.

Washington People

As rescue missions go, this one went beyond the "A Team." It was more like the "A-positive Team."

It was the middle of the night when the phone call roused Justin Carroll from his sleep. Power was out at the University. And, oh, by the way, how much room did he have in his 'fridge?

At risk: dozens of blood samples and thousands of dollars of difficult-to-replace medications stored at the Student Health and Counseling Service.

"Five minutes later, the doorbell rings, and there's Judy Richardson with her little Miata chock full of test tubes and medicine bottles," said Carroll, assistant vice chancellor for students and dean of students. "It was no surprise at all that Judy was the one who appeared in my doorway — despite the fact that she doesn't live anywhere near campus. She has this incredible sense of responsibility and commitment to helping students."

Richardson has been dispensing that devotion for 32 years. She

teaching me how to rinse out a washcloth," she recalled. "You dip it in, and you don't wring it — you lift it up and let all the water run down. I perfected that maneuver. And I was real proud when I went to nurses' training and I already knew that one little thing."

An old-fashioned fluke

But what it really took to launch Richardson into her chosen field was a good, old-fashioned fluke. "My whole family — my mother, my sister, my aunt, my grandmother — all were telephone operators, so I could have easily gotten a job there," she said. "But one of my friends in high school said in passing, 'I'm going to go take the pre-entrance exams at Missouri Baptist — why don't you come with me?' So I did. And I was accepted."

Hired by Missouri Baptist Hospital even before she graduated in 1962, Richardson worked for four years in the psychiatric ward, earning a promotion to head nurse. But drained by the emotional toll of the environment, which still included electric and insulin shock treatments, she embraced the opportunity when a co-worker suggested applying for a Washington University health services opening.

Early on, Richardson mainly worked in the pharmacy filling prescriptions. But soon — sometime in 1968 — she had been asked by Llewellyn Sale Jr., M.D., then director of the health center, to serve as assistant to the physician in gynecology. It was a role she fulfilled for nearly three decades.

Since then, she has worked side by side with four directors: Sale; Mary Parker, M.D.; Bobbi Loeffler, M.D.; and Laurie Reitman, M.D. It was Reitman who promoted her to associate director in 1993.

"What impressed me early on was Judy's commitment to the students," Reitman said. "She's always willing to go the extra mile. As a matter of fact, her close attention to the gynecology clinic has paid dividends in terms of student satisfaction. That clinic has always led our office, consistently indicating 98 percent satisfaction in all categories surveyed."

"We wanted to harness that energy and experience in a broader capacity and that is why I asked Judy to take more of a leadership role."

Said Richardson: "There's been a little more branching out, more meetings out on campus, after-hours exposure getting to know different groups of people that are involved in health care aspects around campus, formulating policy." She also manages the scheduling for all 43 employees, handles insurance requests and is first to grab a paint brush when the facility needs sprucing up.

Richardson's leadership skills were further certified this past year as president of the Central College Health Association, which includes



Judy Richardson (right) and associate nurse Mary Politte review records in the Student Health Service office.

college health professionals from Nebraska, Iowa and Missouri. Her primary duty as president was to organize a three-day conference, "Touching, Healing, Caring: Preparing for a Healthy Millennium," held on campus last March.

"It was a huge undertaking," Richardson said. "I was pleased with the way it turned out. I had a lot of help and formed some friendships."

She already has relayed the feedback she received — pro and con — to next year's organizer. "The worst complaint was from a lady who didn't like the breaks," she said, revealing her desert-dry sense of humor. "She said she would have preferred popcorn or fruit. My own disappointment was I failed to grab a parting gift — I really wanted one of those fanny packs."

Parting gifts should not come into play anytime soon — Richardson has no concrete plans to retire. Colleagues, past and present, say she has much to give. "Judy has just simply blossomed — as a nurse, as an administrator, as a person," said Mary Parker, M.D., who served as director from 1972 to 1990. "She's a very gracious lady and a very skilled supervisor."

An ear for students

"Judy's been the ear for students who have found themselves in difficult times — an unwanted pregnancy or a sexually transmitted disease that they're devastated about," said Gary Wasserman, M.D., a gynecologist in the clinic since 1984.

"People feel that extra touch," Wasserman continued. "She's like an octopus — she's got eight arms that reach out to everyone."

Richardson said the biggest lesson she's learned from interacting with students is not to judge a book by its cover. "When I first came on, the students came in and would be dressed with a hole in their seat — or now they might

have black fingernails and pink hair. But that has nothing to do with who they are as a person, with their station in life, with their level of intelligence, with what their dreams are. You have to get to know the whole person."

The book analogy is apropos. Richardson is a collector with a library that has bulged to 2,000 volumes. She scours estate sales — "I don't like to pay more than three or four dollars!" — for tomes. She favors books of poetry and literature by the likes of Willa Cather and Charles Dickens. Richardson also is an avid gardener.

Both hobbies are on hold for a trying two-month period, however. Strain and physical exertion are verboten as Richardson recovers from mid-August surgery for an eye disorder known as presumed ocular histoplasmosis, which she probably contracted as a young girl frolicking in a chicken coop-turned-playhouse in her grandmother's backyard.

It's a condition that led to laser surgery — and subsequent loss of the central vision in her right eye — back in the early 1970s.

Now, nearly 30 years later, her left eye has developed the affliction. "I was in the kitchen, and all of a sudden things that are round had sections missing," she said. "Since the surgery, it's clearer now, but I still have a distinct blind spot."

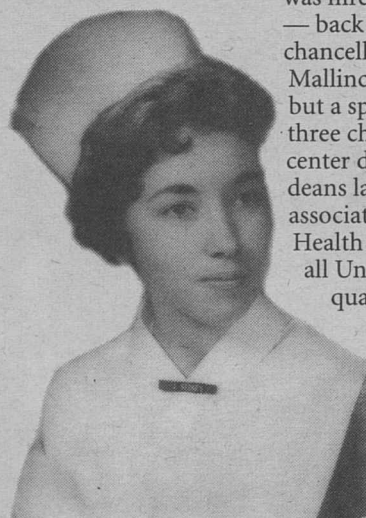
Current fuzziness notwithstanding, Richardson's focus has always been 20-20. An office lined with thank-you notes and cards from students past and present offers a telling glimpse.

"With her experience, Judy could obviously work in any number of health care settings," Carroll concluded. "But she has committed her life, really, to working at Washington University and helping students. Thousands of students have benefited from her sound advice."

For 32 years, a healing presence on campus

Judy Richardson, R.N., has served the University through three chancellors and four health center directors

By DAVID MOESSNER



Judy Richardson at her 1960 capping ceremony

was hired as a staff nurse in 1966 — back when Shepley was a chancellor and not a street and Mallinckrodt Center was nothing but a spacious parking lot. Now, three chancellors, four health center directors and a handful of deans later, she serves as the associate director of the Student Health Service, which provides all University students with quality health care at a minimum cost.

Richardson's calling came early. "I still have an old nurse's hat that I used to wear if anyone in the family was ill," she said with a smile. "I was five or six, and I would put it on and go take care of them. I'd carry them water or a wet cloth — those were the only two things I was allowed to do, but that seemed to satisfy me."

The fascination was nurtured by her stepbrother's girlfriend, who was a nurse. "I remember her

"What impressed me early on was Judy's commitment to the students. She's always willing to go the extra mile."

Laurie Reitman



Richardson walks through campus with her daughter, Ashlyn, in 1969, three years after joining the University staff. Mallinckrodt Center now stands where this picture was taken.

Judy Richardson, R.N.

Raised in St. Clair, Mo.

Family Married to husband, George, a retired jeweler, for 32 years. One daughter, Ashlyn Hargis, 31, assistant professor of occupational therapy at Eastern Kentucky University.

Joined the University in May 1966. "Each day brings something new. I've met and made friends with a lot of people over the years. So many will always remain dear to my heart."